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When a definite constituent occurs in connection with *Biological fluids*, *Biological material*, *Biological systems*, *Blood*, *Blood cell*, *Blood plasma*, *Blood serum*, *Diet*, *Milk*, *Tissue*, *Urine*, the constituent only is indexed. However, *Blood sugar* is indexed as such.

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Linolenic acid (ECKSTEIN)

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*$\beta$ -Streptococcus hæmolyticus*, effect (RAIZISS, SEVERAC, MOETSCH, and CLEMENCE)

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- Hemoglobin regeneration, factors influencing (ROSE, VAHLTEICH, and MACLEOD) 1934, 104, 217
- Phosphorus, body calcium, relation (WHITCHER, BOOHER, and SHERMAN) 1936, 115, 679
- Trout, brook, calcium and phosphorus, effect (McCAY, TUNISON, CROWELL, and PAUL) 1936, 114, 259
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- Formaldehyde:** Acidity, formol titration end-point and (LEVY) 1934, 105, 157
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- Formamide:** Amino acids and, compounds (McMEEKIN) 1936, 114, lxvi

- Formamidine:** Dithio-, cysteine oxidation, sulfenic acid formation (TOENNIES) 1937, 119, xcix
- Formic acid:** Isobutyryl-, ergot alkaloid, precursor (JACOBS and CRAIG) 1937-38, 122, 419
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- Fox-squirrel:** Porphyria (TURNER) 1937, 118, 519
- Fructose:** Blood, determination (ROE) 1934, 107, 15
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Destruction by oxygen, factors influencing (CLINTON and HUBBARD)

1937, 119, 467

Glucose tolerance, normal and depancreatized animals, effect (FLETCHER and WATERS)

1937, 119, xxxiii

Urine, determination (ROE)

1934, 107, 15

**Fruit:** Carotene, light effect (SMITH and MORGAN)

1933, 101, 43

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1933, 101, 43

**Fullers' earth:** Vitamin G concentration (LEPKOVSKY, POPPER, and EVANS)

1935, 108, 257

**Fumarate:** -Succinate-enzyme, system (STOTZ and HASTINGS)

1937, 118, 479

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1937, 118, 471

**Fungus:** Lipase, activity (KIRSH)

1935, 108, 421

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**Furanose:** Derivatives, pentoses, preparation (LEVENE and COMPTON)

1936, 116, 189

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**Galactonic acid:** *l*-, 3,4,5-trimethyl, preparation (TIPSON)

1938, 125, 341

**Galactose:** Absorption, intestine (CAJORI and KARR)

1935, 109, xiv

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Cataract-producing action, protein effect (MITCHELL and COOK)

1938, 123, lxxxvi

*d*-, dimethyl acetal (CAMPBELL and LINK)

1937-38, 122, 635

—, *d*-galacturonic acid synthesis from (NIEMANN and LINK)

1934, 104, 195

Glycogen formation and retention, effect (DEUEL, MACKAY, JEWEL, GULICK, and GRUNEWALD)

1933, 101, 301

Heptamethyl 6-glucosido-, methylation (LEVENE, MEYER, and KUNA)

1938, 125, 703

Hexamethyl 6-glucosido-, methylglycoside of, methyl ester of aldobionic acid hexamethyl methylglycoside, relation (LEVENE, MEYER, and KUNA)

1938, 125, 703

Ketolytic action, other sugars, comparison (BUTTS)

1934, 105, 87

*l*-, *l*-galacturonic acid synthesis from (NIEMANN and LINK)

1934, 104, 743

Lymph, thoracic (FAY and WHARTON)

1935, 109, 695

Respiratory quotient, normal and depancreatized dogs, ingestion effect (ROE, GILMAN, and COWGILL)

1934, 105, lxxii

Tolerance, determination, Folin sugar methods (LOONEY and JELLINEK)

1935, 109, lvii

**Galactose-1-phosphoric acid:**

Synthesis (COLOWICK)

1938, 124, 557

**Galactoside:** 2,3,4-Trimethyl  $\alpha$ -methyl-*d*-, 2,3,4-trimethyl $\alpha$ -methyl-*d*-galacturonide

methyl ester conversion

(LEVENE and KREIDER)

1937, 121, 155

**Galactosuria:** Carbohydrate metabolism (MASON)

1934, 105, lviii

**Galacturonate:** Aldehydo tetra-acetylmethyl-*d*-, synthesis

(CAMPBELL and LINK)

1937, 120, 471

**Galacturonic acid:** Ascorbic acid

precursor (JOHNSTIN and

POTTER) 1935, 110, 279

*d*-,  $\alpha$ -acetobromo-, methylester,  $\beta$ -methyl-*d*-galactur-

onide, conversion to (MOR-

ELL, BAUR, and LINK)

1935, 110, 719

—, —, —, synthesis (MOR-

ELL, BAUR, and LINK)

1935, 110, 719

—, *p*-bromophenylhydrazine

derivatives (NIEMANN,

SCHOEFFEL, and LINK)

1933, 101, 337

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1938, 125, 235

—, diacetone, methyl ester,

catalytic reduction (LEVENE

and CHRISTMAN)

1937-38, 122, 661

—, esterification and acylation

(MORELL and LINK)

1935, 108, 763

—, *d*-galactose synthesis (NIE-

MANN and LINK)

1934, 104, 195

**Galacturonic acid—continued:***d*-, mercaptal, synthesis

(CAMPBELL and LINK)

1937, 120, 471

—, methyl ester, preparation

(SELL and LINK)

1938, 125, 229

—, phenylhydrazine deriva-

tives (NIEMANN, SCHOEFFEL,

and LINK)

1933, 101, 337

—, preparation (MORELL,

BAUR, and LINK)

1934, 105, 15

Determination, Bertrand's

method (KERTESZ)

1935, 108, 127

*dl*-, resolution (NIEMANN and

LINK)

1934, 106, 773

*l*-, *l*-galactose synthesis (NIE-

MANN and LINK)

1934, 104, 743

Poly-, methylglycosides, Ehr-

lich's *Pektolsäure* and *Pekto-**lactonsäure* (BAUR and

LINK) 1935, 109, 293

—, — from pectin (MORELL,

BAUR, and LINK)

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**Galacturonide:**  $\alpha$ -Methyl-*d*-, and

derivatives, ring structure

(LEVENE and KREIDER)

1937, 120, 597

—, hydrolysis, kinetics (MOR-

ELL and LINK)

1934, 104, 183

 $\beta$ -Methyl-*d*-,  $\alpha$ -acetobromo-*d*-

galacturonic acid methyl

ester, conversion from

(MORELL, BAUR, and LINK)

1935, 110, 719

Poly-, methyl ester, oxidation

and hydrolysis to levo-tar-

**Galacturonide**—*continued*:

taric acid (LEVENE and KREIDER)

1937, 120, 591

Triacetyl-*d*-, cholesterol, sitosterol, and ergosterol methyl esters, synthesis (SELL and LINK)

1938, 125, 235

2,3,4-Triacetyl  $\alpha$ -methyl-*d*-, methyl ester, catalytic reduction and deacetylation (LEVENE and CHRISTMAN)

1937-38, 122, 203

2,3,4-Trimethyl  $\alpha$ -methyl-*d*-, methyl ester, catalytic reduction (LEVENE, TIPSON, and KREIDER)

1937-38, 122, 199

— — — conversion to 2,3,4-trimethyl  $\alpha$ -methyl-*d*-galactoside (LEVENE and KREIDER)

1937, 121, 155

**Galac yeast**: Preparation (KIRBY and ATKIN)

1936, 116, 511

**Galleria mellonella**: *See* Bee-moth

**Gallstones**: Hog bile, lithocholic acid (SCHOENHEIMER and JOHNSTON)

1937, 120, 499

**Gallus domesticus**: *See* Fowl

**Gamabufagin**: Chemical constitution (JENSEN)

1937, 119, lii

**Gas**: Analysis, pipette, air-free reagents, storage (GUEST and HOLMES)

1935, 110, 781

—, respiration trials (KLEIBER)

1933, 101, 583

—, Van Slyke, vessels for solution storage (HOLMES)

1936, 113, 411

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Blood analysis, Van Slyke (RAPPAFORT and KÖCK-MOLNAR)

1934, 104, 29

—, determination, blood collection (LOONEY and CHILDS)

1934, 104, 53

—, electrolyte and, equilibrium (VAN SLIKE and SENDROY)

1933, 102, 505

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1934, 105, 571

(SENDROY, DILLON, and VAN SLIKE)

1934, 105, 597

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1938, 123, lxxvi

Ether-containing, analysis, Haldane apparatus (SNYDER)

1937-38, 122, 21

Solubility, determination (ORCUTT and SEEVERS)

1937, 117, 501

**Gastric**: *See* Stomach

**Gastrointestinal tract**: Hydrogen ion concentration determination, glass electrode (EASTMAN and MILLER)

1935, 110, 255

**Gelatin**: Arsanilic acid and (BOYD and HOOKER)

1934, 104, 329

Chemical constitution (BERGMANN)

1935, 110, 471

Microdetermination (SPENCER, MORGULIS, and WILDER)

1937, 120, 257

Salts and, activity coefficients and membrane equilibrium (JOSEPH)

1936, 116, 353

— —, interaction (JOSEPH)

1936, 114, lv

**Gelatin—continued:**

Structure (BERGMANN and NIEMANN)

1937, 118, 301

**Genital tract:** Male hormone, anterior pituitary-like hormone, and fat metabolism hormone, effect (HARROW and NAIMAN)

1934, 105, xxxv

**Gentiobiose:** Acetyl derivatives, uronic acid methyl esters, molecular rotations, relationship (GOEBEL and REEVES)

1938, 123, xlii

*p*-Aminophenol  $\beta$ -glycosides, synthesis (BABERS and GOEBEL)

1934, 105, 473

**Geronic acid:** Formation, carotene and dihydrocarotene ozonization (STRAIN)

1933, 102, 137

**Gestation:** Calcium requirement (COX and IMBODEN)

1934, 105, xviii

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1937-38, 122, 715

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1934, 105, xviii

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1935, 109, xcv

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**Gibberella saubinetii:** Carbon metabolism on glucose (HESSLER and GORTNER)

1937, 119, 193

**Gingiva:** Lipids (HODGE)

1933, 101, 55

**Girls:** Adolescent, mineral metabolism (WANG, KAUCHER, and WING)

1935, 109, xcv

Basal metabolism, preformed and total creatinine nitrogen (WANG)

1937, 119, cii

**Gitogenin:** (JACOBS and SIMPSON)

1934, 105, 501

**Gizzard:** Anti-erosion factor, chick, chondroitin effect (BIRD and OLESON)

1938, 123, xi

Factor, chick, distribution and properties (BIRD, ELVEHJEM, and HART)

1936, 114, x

**Gliadin:** Osmotic pressure, molecular weight, and stability (BURK)

1938, 124, 49

**Globin:** Amphoteric properties (COHN, SALTER, and FERRY)

1938, 123, xxiv

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1938, 123, cxxix

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1937, 119, cv

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1938, 123, xliv

Biological fluids, determination, precipitin method (GOETTSCH and KENDALL)

1935, 109, 221

Blood serum and plasma (CAMPBELL and HANNA)

1937, 119, 15



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Blood serum, determination,  
angle centrifuge (PRICE,  
ROBINSON, and HOGDEN)

1938, 123, xcvi

— —, errors (ROBINSON,  
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— —, osmotic pressure, molec-  
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1934, 104, 359

Jack bean, crystalline, from  
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1935, 109, xxxvii

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1938, 123, xxiii

**Glomerulus:** Inulin excretion,  
frog and *Necturus* (HEN-  
DRIX, WESTFALL, and RICH-  
ARDS)

1936, 116, 735

Urine (RICHARDS, BORDLEY,  
and WALKER)

1933, 101, 179

—, chloride, frog and *Necturus*  
(WESTFALL, FINDLEY, and  
RICHARDS)

1934, 107, 661

—, creatinine, frog (BORDLEY,  
HENDRIX, and RICHARDS)

1933, 101, 255

—, hydrogen ion concentration  
determination, microquiny-

**Glomerulus—continued:**

drone electrode, *Necturus*  
(PIERCE and MONTGOMERY)

1935, 110, 763

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frog and *Necturus* (WALKER)

1933, 101, 239

—, reaction, frog and *Necturus*  
(MONTGOMERY)

1935, 110, 749

—, reducing substances, frog  
and *Necturus* (WALKER and  
REISINGER)

1933, 101, 223

—, uric acid, snake and frog  
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1933, 101, 193

**Glucoreductone:** 2,6-Dichloro-  
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1934, 104, 483

**Glucosamine:** *d*-, oxidation  
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1938, 123, 83

**Glucose:** Absorption, intestine  
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1935, 109, xiv

—, —, rate (MACKAY and  
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ized rats, sexual variation  
(DEUEL, HALLMAN, MUR-  
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1937, 119, 607

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- Glycogenic and ketolytic action, comparison (SHA-PIRO) 1935, 108, 373
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1937, 119, 741

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1934, 105, 705

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1937, 119, xxxiii

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1937, 120, 51

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**Glucosemonophosphate:** Calcium salt, yeast extract, isolation (SMYTHE)

1937, 117, 135

**Glucose-4-phosphate:** (RAYMOND)

1936, 113, 375

**Glucose-1-phosphoric acid:** Isolation and synthesis (CORI, CORI, and COLOWICK)

1937, 119, xix

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1937, 121, 465

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1938, 123, 375

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**Glucose-6-phosphoric ester:** Glucose-1-phosphoric ester conversion to, enzyme, tissue extracts (CORI, COLOWICK, and CORI)

1938, 124, 543

**Glucosidase:**  $\alpha$ -, specificity (TAUBER and KLEINER)

1934, 105, xci

**Glucurone:** Diacetylchloro-, synthesis (GOEBEL and BABERS)

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**Glucuronic acid:** Benzoyl-, chemical constitution (GOEBEL)

1937-38, 122, 649

Borneol-, glucuronic acid preparation from (SWARTZ and MILLER)

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$\alpha$ -Bromotriacetyl-, methyl ester, preparation (GOEBEL and BABERS)

1935, 111, 347

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1935, 111, 347

1-Chlorotriacetyl-, methyl ester, synthesis (GOEBEL and BABERS)

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-Containing antigens, artificial, immunological properties (GOEBEL and GOODNER)  
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*l*-, synthesis (NIEMANN and LINK) 1934, 106, 773

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$\alpha$ -Tetraacetyl- and  $\beta$ -tetraacetyl-, methyl ester, synthesis (GOEBEL and BABERS)  
1934, 106, 63

**Glucuronidase:**  $\beta$ - (FISHMAN)  
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1935, 109, 541

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1933, 101, 603

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1937, 119, 247

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**Glutamine:** Preparation (VICKERY, PUCHER, and CLARK)  
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**Glutamylcysteinylglycine:**  $\alpha$ -, synthesis (DU VIGNEAUD, LORING, and MILLER)  
1937, 118, 391

**Glutathione:** Benzylcysteinylglycine isolation from (LORING and DU VIGNEAUD)  
1935, 111, 385

Blood, anemia, nutritional (SCHULTZE and ELVEHJEM)  
1936, 116, 711

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1934, 105, liii

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- Cystinyldiglycine isolation from (LORING and DU VIGNEAUD) 1935, 111, 385
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- Kidney enzyme, hydrolysis (SCHROEDER and WOODWARD) 1937, 120, 209
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- Metabolism, cystinuria (BRAND, CAHILL, and HARRIS) 1935, 109, 69
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- Reduced and oxidized, blood oxygen capacity and content, relation (OBERST and WOODS) 1935, 111, 1
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- , —, ergosterol, irradiated, effect (GUEST and RAPOPORT) 1938, 124, 599
- Diphospho-*l*-, phosphatase, hydrolysis (BODANSKY and BAKWIN) 1934, 104, 747
- Glyceride(s):** Coffee-bean oil (BENGIS and ANDERSON) 1934, 105, 139
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*dl*-Amino-N-methyltryptophane effect (GORDON)

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*l*-Histidine, effect (Cox and  
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*l*-Homocystine, effect (DYER  
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—, — serum, age and nutrition, effect (PEARSON)

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*l*-Cystine precipitation (TOEN-  
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— —, —, absorption spectrum curve, ultraviolet (CROWE)

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- Piperazines:** 2,5-Diketo-, hy-  
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— II, specific precipitate (CALVERY, HEIDELBERGER, and KENDALL) 1935, 109, xv

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- Polydiaminophosphatide:** Hydrolysis, polydiaminophosphatase, cerebrosidase relation (THANNHAUSER and REICHEL) 1936, 113, 311
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